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☐ 1. Document ID: US 20070225591 A1

L35: Entry 1 of 37

File: PGPB

Sep 27, 2007

PGPUB-DOCUMENT-NUMBER: 20070225591

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070225591 A1

TITLE: SPECTRALLY SELECTIVE SUPPRESSION WITH STEADY-STATE FREE PRECESSION

PUBLICATION-DATE: September 27, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Derbyshire; John Andrew Silver Spring MD US

Herzka; Daniel Alfredo Rockville MD US

McVeigh; Elliot R. Phoenix AZ US

US-CL-CURRENT: 600/410



☐ 2. Document ID: US 20070007959 A1

L35: Entry 2 of 37

File: PGPB

Jan 11, 2007

PGPUB-DOCUMENT-NUMBER: 20070007959

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070007959 A1

TITLE: <u>Simultaneous phase</u> cycling for nuclear <u>magnetic resonance</u> spectroscopy

PUBLICATION-DATE: January 11, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Szyperski; Thomas A. Amherst NY US

Parish; David M. Buffalo NY US

US-CL-CURRENT: 324/307; 324/309, 324/310

Full Title Citation Front Review Classification Date Reference Sequences
Attachments Claims KWIC Draw Desc Image

☐ 3. Document ID: US 20050065431 A1

L35: Entry 3 of 37 File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065431 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20050065431 A1

 $\ensuremath{\mbox{TITLE:}} \underline{\mbox{Magnetic resonance}}$ imaging method and apparatus for body composition analysis

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	
Reiderman, Arcady	Houston	TX	US	
Taicher, Gersh Z.	Houston	TX	US	
Krugliak, Zinovy	Houston	TX	US	

US-CL-CURRENT: 600/415



☐ 4. Document ID: US 20040008027 A1

L35: Entry 4 of 37

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040008027

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040008027 A1

TITLE: Method and apparatus for detecting diffusion sensitive $\underline{\text{phases}}$ with estimation of residual error in $\underline{\text{NMR}}$ logs

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Prammer, Manfred Downingtown PA US

US-CL-CURRENT: 324/303; 702/6

Full Title Citation Front Review Classification Date Reference Sequences
Attechments Claims KWIC Draw Desc Image

☐ 5. Document ID: US 20010056231 A1

L35: Entry 5 of 37

File: PGPB

Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010056231

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010056231 A1

TITLE: High resolution MRI imaging of brain functions

PUBLICATION-DATE: December 27, 2001

INVENTOR-INFORMATION:

TRY	

US-CL-CURRENT: 600/410

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KWIC	Drawt Desc	Image			

☐ 6. Document ID: US 7343192 B2

L35: Entry 6 of 37

File: USPT Mar 11, 2008

US-PAT-NO: 7343192

DOCUMENT-IDENTIFIER: US 7343192 B2

TITLE: Magnetic resonance imaging method and apparatus for body

composition analysis

DATE-ISSUED: March 11, 2008

PRIOR-PUBLICATION:

DOC-ID DATE

US 20050065431 A1

March 24, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Reiderman; Arcady Houston TX US Houston Taicher; Gersh Z. TX US Krugliak; Zinovy Houston TX US

US-CL-CURRENT: 600/410; 324/309



☐ 7. Document ID: US 7253620 B1

L35: Entry 7 of 37

File: USPT

Aug 7, 2007

US-PAT-NO: 7253620

DOCUMENT-IDENTIFIER: US 7253620 B1

TITLE: Spectrally selective suppression with steady-state free precession

OTTV

.

DATE-ISSUED: August 7, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Derbyshire; John Andrew	Silver Spring	MD	US
Herzka; Daniel Alfredo	Rockville	MD	US
McVeigh; Elliot R.	Phoenix	MD	US

US-CL-CURRENT: 324/307; 324/309



☐ 8. Document ID: US 7064547 B1

L35: Entry 8 of 37

File: USPT

Jun 20, 2006

IIS-PAT-NO: 7064547

DOCUMENT-IDENTIFIER: US 7064547 B1

** See image for Certificate of Correction **

TITLE: Method and apparatus of M/r imaging with coil calibration data acquisition

DATE-ISSUED: June 20, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

King; Kevin F. New Berlin WI US
Angelos; Elisabeth Hartland WI US
Polzin; Jason A. Lake Mills WI US

US-CL-CURRENT: 324/309



☐ 9. Document ID: US 6956371 B2

L35: Entry 9 of 37 File: USPT Oct 18, 2005

US-PAT-NO: 6956371

DOCUMENT-IDENTIFIER: US 6956371 B2

TITLE: Method and apparatus for detecting diffusion sensitive <u>phases</u> with estimation of residual error in <u>NMR</u> logs

DATE-ISSUED: October 18, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Prammer; Manfred Downingtown PA

US-CL-CURRENT: 324/303; 324/300



☐ 10. Document ID: US 6704594 B1

L35: Entry 10 of 37

File: USPT

Mar 9, 2004

US-PAT-NO: 6704594

DOCUMENT-IDENTIFIER: US 6704594 B1

TITLE: Magnetic resonance imaging device

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Blank; Aharon Kiriat Ono TT. Alexandrowicz; Gil Jerusalem IL Golan; Erez Tel Aviv IL

US-CL-CURRENT: 600/423; 128/899, 324/318, 324/322, 600/407, 600/409,

600/410, 600/421



☐ 11. Document ID: US 6624630 B1

L35: Entry 11 of 37

File: USPT Sep 23, 2003

US-PAT-NO: 6624630

DOCUMENT-IDENTIFIER: US 6624630 B1

TITLE: Sliding frequency steady-state precession imaging

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Foxall; David L. Mentor OH

US-CL-CURRENT: 324/307; 324/309



☐ 12. Document ID: US 6472872 B1

L35: Entry 12 of 37

File: USPT

Oct 29, 2002

US-PAT-NO: 6472872

DOCUMENT-IDENTIFIER: US 6472872 B1

TITLE: Real-time shimming of polarizing field in magnetic resonance system

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jack, Jr.; Clifford R. Rochester MN Ward; Heidi A. Rochester MN Riederer; Stephen J. Rochester MN

US-CL-CURRENT: 324/309; 324/307



☐ 13. Document ID: US 6307368 B1

L35: Entry 13 of 37

File: USPT Oct 23, 2001

US-PAT-NO: 6307368

DOCUMENT-IDENTIFIER: US 6307368 B1

** See image for Certificate of Correction **

TITLE: Linear combination steady-state free precession MRI

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Vasanawala; Shreyas S. Mountain View CA

Pauly; John M. Redwood City CA Nishimura; Dwight G. Palo Alto CA

US-CL-CURRENT: 324/309; 324/300, 324/307, 324/311

Full Title Citation Front Review Classification Date Reference Claims KWC Draw Desc Image

☐ 14. Document ID: US 5938599 A

L35: Entry 14 of 37 File: USPT Aug 17, 1999

US-PAT-NO: 5938599

DOCUMENT-IDENTIFIER: US 5938599 A

TITLE: MR method and arrangement for carrying out the method

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME

Rasche; Volker Hamburg DE
Bornert; Peter Hamburg DE
Ludeke; Kai-Michael Hamburg DE

STATE ZIP CODE

COUNTRY

CITY

Kuhn; Michael Hamburg DE

US-CL-CURRENT: 600/410; 324/307, 324/309



☐ 15. Document ID: US 5818229 A

L35: Entry 15 of 37

File: USPT

Oct 6, 1998

US-PAT-NO: 5818229

DOCUMENT-IDENTIFIER: US 5818229 A

** See image for <u>Certificate of Correction</u> **

TITLE: Correction of MR imaging $\underline{\text{pulse}}$ sequence using prescan having application $\underline{\text{phase}}$ adjusted $\underline{\text{RF}}$ refocusing $\underline{\text{pulses}}$

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kanazawa; Hitoshi Utsunomiya JP

US-CL-CURRENT: 324/309; 324/307

Full Title Citation Front Review Classification Date

☐ 16. Document ID: US 5647362 A

L35: Entry 16 of 37 File: USPT

Jul 15, 1997

US-PAT-NO: 5647362

DOCUMENT-IDENTIFIER: US 5647362 A

TITLE: Correction of read-gradient polarity in EPI and grase MRI

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fuderer; Miha Eindhoven NL Groen; Johannes P. Eindhoven NL

US-CL-CURRENT: 600/410; 324/309



☐ 17. Document ID: US 5455512 A

L35: Entry 17 of 37 File: USPT Oct 3, 1995

US-PAT-NO: 5455512

DOCUMENT-IDENTIFIER: US 5455512 A

TITLE: Eddy current compensation in $\underline{\text{magnetic resonance}}$ imaging

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME

Groen; Johannes P. Eindhoven NL
Van Der Meulen; Peter Eindhoven NL
Van Yperen; Gerrit H. Eindhoven NL
Mehlkopf; Antoon F. Eindhoven NL

CITY

STATE ZIP CODE COUNTRY

US-CL-CURRENT: 324/309



☐ 18. Document ID: US 5450010 A

L35: Entry 18 of 37 File: USPT Sep 12, 1995

US-PAT-NO: 5450010

DOCUMENT-IDENTIFIER: US 5450010 A

TITLE: <u>Magnetic resonance</u> imaging method and apparatus employing eddy current compensation by modification of gradient size

DATE-ISSUED: September 12, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Van Der Meulen; Peter Eindhoven NL
Van Yperen; Gerrit H. Eindhoven NL

US-CL-CURRENT: 324/309



☐ 19. Document ID: US 5410249 A

L35: Entry 19 of 37 File: USPT Apr 25, 1995

US-PAT-NO: 5410249

DOCUMENT-IDENTIFIER: US 5410249 A

TITLE: Method and apparatus for magnetic resonance imaging

DATE-ISSUED: April 25, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Van Yperen; Gerrit H. Eindhoven NL
Van Der Meulen; Peter Eindhoven NL

US-CL-CURRENT: 324/309; 324/307



☐ 20. Document ID: US 5402787 A

L35: Entry 20 of 37

File: USPT

Apr 4, 1995

US-PAT-NO: 5402787

DOCUMENT-IDENTIFIER: US 5402787 A

TITLE: Method and apparatus for magnetic resonance imaging

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Van Yperen; Gerrit H. Eindhoven

NL

US-CL-CURRENT: 600/410; 324/309



☐ 21. Document ID: US 5304931 A

L35: Entry 21 of 37

File: USPT

Apr 19, 1994

US-PAT-NO: 5304931

DOCUMENT-IDENTIFIER: US 5304931 A

TITLE: Magnetic resonance imaging techniques

DATE-ISSUED: April 19, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Flamig; Duane P. Richardson TX 75082 Harms: Steven E. Dallas TX 75205 US-CL-CURRENT: 324/309



□ 22. Document ID: US 5204625 A

L35: Entry 22 of 37

File: USPT

Apr 20, 1993

US-PAT-NO: 5204625

DOCUMENT-IDENTIFIER: US 5204625 A

TITLE: Segmentation of stationary and vascular surfaces in magnetic resonance imaging

DATE-ISSUED: April 20, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Cline; Harvey E. Schenectady NY
Souza; Steven P. Williamstown MA
Lorensen; William E. Johnsville NY
Kennedy; Thomas E. Whitefish Bay WI

US-CL-CURRENT: 324/306; 324/309



23. Document ID: US 5201311 A

L35: Entry 23 of 37 File: USPT Apr 13, 1993

US-PAT-NO: 5201311

DOCUMENT-IDENTIFIER: US 5201311 A

TITLE: Spatially-localized chemical-reaction-rate NMR spectroscopic

imaging

DATE-ISSUED: April 13, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bottomley; Paul A. Clifton Park NY Hardy; Christopher J. Schenectady NY

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/558



☐ 24. Document ID: US 5093620 A

L35: Entry 24 of 37 File: USPT Mar 3, 1992

US-PAT-NO: 5093620

DOCUMENT-IDENTIFIER: US 5093620 A

** See image for Certificate of Correction **

TITLE: Encoding for NMR phase contrast flow measurement

DATE-ISSUED: March 3, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pelc; Norbert J. Los Altos CA Glover; Gary H. Menlo Park CA

US-CL-CURRENT: 324/306; 324/300



25. Document ID: US 5019784 A

L35: Entry 25 of 37

File: USPT

May 28, 1991

US-PAT-NO: 5019784

DOCUMENT-IDENTIFIER: US 5019784 A

** See image for Certificate of Correction **

TITLE: Time symmetric $\underline{\text{pulse}}$ to uniformly rotate magnetization vectors by an arbitrary angle in the presence of large B1 inhomogeneities and resonance offsets

DATE-ISSUED: May 28, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Garwood; Michael Shorewood MN Uqurbil; Kamil Maple Plain MN

US-CL-CURRENT: 324/307; 324/309



☐ 26. Document ID: US 4748409 A

L35: Entry 26 of 37

File: USPT

Mav 31, 1988

US-PAT-NO: 4748409

DOCUMENT-IDENTIFIER: US 4748409 A

** See image for Certificate of Correction **

TITLE: Imaging magnetic spin resonance method and apparatus

DATE-ISSUED: May 31, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Frahm; Jens Goettingen DE
Haase; Axel Goettingen DE
Haenicke; Wolfgang Goettingen DE
Merboldt; Klaus-Dietmar Goettingen DE
Matthaei; Dieter Goettingen DE

US-CL-CURRENT: 324/309; 324/307



☐ 27. Document ID: US 4703267 A

L35: Entry 27 of 37 File: USPT

Oct 27, 1987

US-PAT-NO: 4703267

DOCUMENT-IDENTIFIER: US 4703267 A

TITLE: High dynamic range in NMR data acquisition

DATE-ISSUED: October 27, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Maudsley; Andrew A. New York NY

US-CL-CURRENT: 324/307; 324/309, 324/314



☐ 28. Document ID: US 4654594 A

L35: Entry 28 of 37 File: USPT Mar 31, 1987

US-PAT-NO: 4654594

DOCUMENT-IDENTIFIER: US 4654594 A

TITLE: Method of analysing the structure and characteristics of an object

DATE-ISSUED: March 31, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sepponen; Raimo Helsinki FI

US-CL-CURRENT: 324/309; 324/307



☐ 29. Document ID: US 4647858 A

L35: Entry 29 of 37 File: USPT

Mar 3, 1987

US-PAT-NO: 4647858

DOCUMENT-IDENTIFIER: US 4647858 A

TITLE: Methods for overcoming transient magnetic field inhomogeneity in nuclear <u>magnetic resonance</u> imaging

DATE-ISSUED: March 3, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bottomley; Paul A. Clifton Park NY

US-CL-CURRENT: 324/320; 324/322, 505/844



☐ 30. Document ID: US 4629988 A

L35: Entry 30 of 37

File: USPT

Dec 16, 1986

US-PAT-NO: 4629988

DOCUMENT-IDENTIFIER: US 4629988 A

TITLE: Method of imaging by depth-resolved surface coil spectroscopy

DATE-ISSUED: December 16, 1986

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bottomley; Paul A. Clifton Park NY

US-CL-CURRENT: 324/309; 324/322



☐ 31. Document ID: US 4506223 A

L35: Entry 31 of 37 File: USPT

Mar 19, 1985

US-PAT-NO: 4506223

DOCUMENT-IDENTIFIER: US 4506223 A

TITLE: Method for performing two-dimensional and three-dimensional

chemical shift imaging

DATE-ISSUED: March 19, 1985

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bottomley; Paul A. Clifton Park NY Edelstein; William A. Schenectady NY

US-CL-CURRENT: 324/309; 324/307



☐ 32. Document ID: US 4315216 A

L35: Entry 32 of 37 File: USPT Feb 9, 1982

US-PAT-NO: 4315216

DOCUMENT-IDENTIFIER: US 4315216 A

TITLE: Imaging systems

DATE-ISSUED: February 9, 1982

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Clow; Hugh Reading GB2
Walters; Peter E. Southall GB2

US-CL-CURRENT: 324/309; 324/307



☐ 33. Document ID: US 4300096 A

L35: Entry 33 of 37 File: USPT Nov 10, 1981

US-PAT-NO: 4300096

DOCUMENT-IDENTIFIER: US 4300096 A

TITLE: Imaging systems

DATE-ISSUED: November 10, 1981

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Harrison; Colin G. High Wycombe GB2 Young; Ian R. Sunbury on Thames GB2

US-CL-CURRENT: 324/309



34. Document ID: US 4284948 A

L35: Entry 34 of 37 File: USPT

Aug 18, 1981

US-PAT-NO: 4284948

DOCUMENT-IDENTIFIER: US 4284948 A

TITLE: Imaging systems

DATE-ISSUED: August 18, 1981

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Young; Ian R. Sunbury on Thames GB2

US-CL-CURRENT: 324/309; 324/313



☐ 35. Document ID: US 4254778 A

L35: Entry 35 of 37

File: USPT

Mar 10, 1981

US-PAT-NO: 4254778

DOCUMENT-IDENTIFIER: US 4254778 A

TITLE: Imaging systems

DATE-ISSUED: March 10, 1981

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Clow; Hugh Maidenhead GB2
Walters; Peter E. Southall GB2
Percival; Wiliam S. West Ealing GB2

US-CL-CURRENT: 600/410; 324/309, 324/314



☐ 36. Document ID: US 3530374 A

L35: Entry 36 of 37

File: USOC

Sep 22, 1970

US-PAT-NO: 3530374

DOCUMENT-IDENTIFIER: US 3530374 A

TITLE: PULSED NUCLEAR MAGNETIC RESONANCE OF SOLIDS

DATE-ISSUED: September 22, 1970

INVENTOR-NAME: WAUGH JOHN S; HAEBERLEN ULRICH H

US-CL-CURRENT: 324/311



□ 37. Document ID: US 3530373 A

L35: Entry 37 of 37

File: USOC

Sep 22, 1970

US-PAT-NO: 3530373

DOCUMENT-IDENTIFIER: US 3530373 A

TITLE: METHODS AND APPARATUS FOR $\underline{\text{PULSED}}$ NUCLEAR $\underline{\text{MAGNETIC}}$ RESONANCE OF

SOLIDS

DATE-ISSUED: September 22, 1970

INVENTOR-NAME: WAUGH JOHN S

US-CL-CURRENT: 324/311



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.33	(L34 AND L28).PGPB,USPT,USOC,EPAB,JPAB,DWPI, TDBD.	37	

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